

1 APPLICATION FOR UNITED STATES LETTERS PATENT

2 ON INVENTION FOR:

3 PROTECTIVE CARPET BINDING

4 BY INVENTOR: Benigno G. Perez

5 *****

6 Agt. Doc. No.: PERB27A

7 *****

8 RICHARD L. MILLER

9 REGISTERED PATENT AGENT

10 12 PARKSIDE DRIVE

11 DIX HILLS, NEW YORK 11746-4879

12 PHONE: (631) 499-4343

13 *****

14 TO ALL WHOM IT MAY CONCERN:

15 BE IT KNOWN that I, Benigno G. Perez, a citizen of
16 THE UNITED STATES OF AMERICA and resident of: Bronx, NY
17 10469 have invented certain new and useful improvements in
18 a(n): PROTECTIVE CARPET BINDING of which the following is a
19 full, clear, concise and exact description:

1 Inventor: Benigno G. Perez
2 Invention: PROTECTIVE CARPET BINDING
3 DOC. No.: PERB27A

4 CROSS REFERENCE TO RELATED APPLICATIONS

5 The instant application contains subject matter disclosed in
6 applicant's Application filed in the Republic of Peru, Received unit of
7 transaction document 000823-2002/OIN 000001, filed on August 27, 2002,
8 3:45 PM which is presently copending and accordingly it is respectfully
9 requested that this application be accorded priority benefits of the
10 above priority date of August 27, 2002, under Title 35 USC 119(a)-(d) or
11 365(b) of any foreign application(s).

12 Field of the Invention:

13 The present invention relates to protective carpet binding.
14 It will be understood that each of the elements described herein,
15 or two or more together, may also find a useful application in other
16 types of constructions differing from the types described herein.

17 While the invention has been illustrated and described as
18 embodiments of a protective carpet binding, accordingly it is not
19 limited to the details shown, since it will be understood that various
20 omissions, modifications, substitutions and changes in the forms and
21 details of the device illustrated and its operation can be made by those
22 skilled in the art without departing in any way from the spirit of the
23 present invention.

24 Without further analysis, the foregoing will so fully reveal the
25 gist of the present invention that others can, by applying current
26 knowledge, readily adapt it for various applications without omitting
27 features that, from the standpoint of prior art, fairly constitute
28 characteristics of the generic or specific aspects of this invention.

1 Numerous innovations for carpet edge protection have been provided in
2 the prior art. Even though these innovations may be suitable for the
3 specific individual purposes to which they address, accordingly they
4 differ from the present invention.

1

BRIEF DESCRIPTION OF THE DRAWING

2 The figures of the drawings are briefly described as follows:

3 Figure 1 illustrates the thermogluie fabric binding tape to protect and
4 decorate carpet's edges and borders with fuse system;

5 Figure 2 illustrates a single binding embodiment thereof;

6 Figure 3 illustrates a binding with support embodiment thereof; and

7 Figure 4 illustrates a double binding embodiment thereof.

Pro Carpet B (Protective Carpet Binding)

Thermoglu fabric tape to protect and decorate the carpet edges and borders with a fuse system

(A.) Background Of The Invention:

Throughout these past twenty years of working in the carpet business field, I have found a strong need of a new and unique system to protect the edges of the carpet. It consists of a stitch free fabric tape with a special kind of adhesive (waterproof silicone) to be stuck by the heat of an iron. This will make the tape remain perfectly secured to the edge of the carpet.

This can be a unique substitute to all of those useless and very limited products that exist on the market. The ones out on the market are metal, plastic, and vinyl strips that are both dangerous and unattractive. In addition, you will need other accessories to place them. My new method does not need any complicated or heavy sewing machines. My idea is easy to work with and is designed to "Do it yourself." My idea does not involve the hassle of sending your carpet to be stitched at the factory.

Most finishing strips are not only unattractive but also hard and dangerous, particularly when children are playing on the carpet. "Pro Carpet B" on the other hand would provide a softer, flexible edge that would prevent injuries in the event that children, even adults lie or play on the carpet. In addition "Pro Carpet B" is an original product concept designed to protect carpet edges against the possibilities of unraveling and deteriorating due to wear at exposed edges. "Pro Carpet B" has been designed to provide a better alternative to traditional carpet finishing products.

"Pro Carpet B" would consist of a thermoglu fabric binding tape made of cotton, polyester, jute, or any other similar material to tastefully match any kind of carpeting, color or pattern according to the client's desire. It could also be offered in different widths and lengths.

Only with this new product, Pro Carpet B, we will be able to make different forms, shapes, and sizes. It can be done for area rugs, runners, hallways, and stairways. The costumer can pick the color of the tape to go with the carpet to make it match perfectly. This design can give the carpet an elegant and beautiful appearance. It can also be exposed to the market in either small or large quantities. It can go according to the costumer's need, such as rolls of 15, 20, and 30 feet long. It can also be 2, 3 or more inches wide to satisfy the costumer's desire.

I made them by hand and have tried them out myself. They work perfectly but just needs to be manufactured in large quantities. There is a product (U.S. Patent 4054698 called carpet binding tape 10/18/77), that may seem similar to my product but in reality is very different. It is made of semirigid plastic to be used on the doorways but it is seldom used.

(B.) Summary Of The Invention:

Pro Carpet B would replace all different kinds of metals, that in each case we need to use different kinds of nails, for wood or concrete floor, all different kinds of existing vinyl strips that it needs to use a very strong glue, the binding machine to do the regular cloth binding edging, that in this case it is very expensive and it needs a qualified labor worker. Therefore my new system will minimize labor costs and prevents injuries that could be caused by the dangerous sharp ends of the metals.

The idea of my product is to be more elegant, durable, and even reusable than any metal, vinyl strips, or cloth binding edges.

It would be useful on hallways by spindles where a binding machine is impossible to use. It would be easier to handle and install on any kind of floor for any carpet installer, avoiding expensive costs of a binding machine and professional carpet binder.

Conventional products for finishing the edges of carpets have a number of drawbacks. For one, they are usually unattractive metal strips, which do nothing to enhance the appearance of the carpet or the room in which it is installed. Despite its simplicity and ease of use, Pro Carpet B, would have a number of advantages over conventional carpet edge finishing products. My new concept would help to give the carpet a more finished look.

"Pro Carpet B" would be far more attractive and elegant looking as compared to regular metal strips and will be offered in various colors. This product will also be much safer than the metal strips. It would be pliable and soft with no sharp edges and would not have to be secured by nails. Thus, there would be no chance of injury for both children and adults.

(C.) Description Of The Views Of The Drawings:

"Pro Carpet B" is going to be (something like scotch tape) a thermogluie fabric tape in several colors to match with the carpet. The binding tape can be made of polyester, cotton, or any similar fabric. It will be covered with a film of silicone adhesive that will be stuck to the carpet by an iron. This will make the tape to stick to the edge of the carpet giving it a perfect finish. "Pro Carpet B" is simple in design and would be relatively easy and inexpensive to be produced. It would fulfill the need for a new way to protect and finish carpet edges.

- (1.) Binding with Support: This is designed to protect the edging of all kinds of carpets.
- (2.) Single Binding: Besides protecting the edges, it will give a beautiful, decorative appearance. (Mostly for thin carpets)
- (3.) Double Binding: This is similar to single binding but reinforced, turning twice.

(D.) Description Of The Invention:

(1.) Binding with Support: 1 $\frac{1}{2}$ inches wide fabric tape that $\frac{1}{2}$ inch will cover the paper string that gives it the shape of a cigarette, this will join the edge of the carpet. The other 1 inch of the fabric tape will be covered with a coat of a waterproof adhesive (silicone) that will be melted by an iron. Then it will stick to the back of the carpet. This will avoid the carpet from fraying.

(2.) Single Binding: 3 inches wide fabric tape of any color or design according to the consumer's desire. One side of the fabric tape will be covered (something like scotch tape) by a film of adhesive that would be folded length wise. So one half (1 $\frac{1}{2}$ inches wide) of the fabric tape will get stuck to the face of the carpet then the other half will be glued to the back side of the carpet by heat.

(3.) Double Binding (reinforced): 3 inch wide fabric tape to be folded 3 times. $\frac{1}{3}$ (1 inch wide) of the fabric will be covered with a film of adhesive (silicone) that will be placed, lengthwise to the face of the carpet so it can stick with an iron. The other $\frac{1}{3}$ (1 inch wide) of the fabric tape will be folded over (twice) to the previous strip of the fabric tape that is already stuck to the border of the carpet (face). So the other $\frac{1}{3}$ (1 inch wide) of the fabric tape covered with another 1 inch film of adhesive will be folded to get stuck to the back side of the carpet by heat.

Pro Carpet B is going to be a unique fuse system to protect and decorate the carpet edges and borders with different colors and designs. This new product will be used everyday to cover all carpet needs. It can easily replace all kinds of attachments used to protect the carpet edges.

This particular system will provide a stitch-free binding tape for carpet edges that will consist in a particular kind of thermogluie fabric tape covered with a film of special adhesive that will get stuck to the edge and border of the carpet with the help of an iron. Besides protecting the edge of the carpet and also decorating the borders this new and unique system adds an elegant, attractive look to the carpet regardless of its color or pattern. It would also eliminate the need of thresholds and borders, thus providing more decorating means of finishing a carpet installation job.